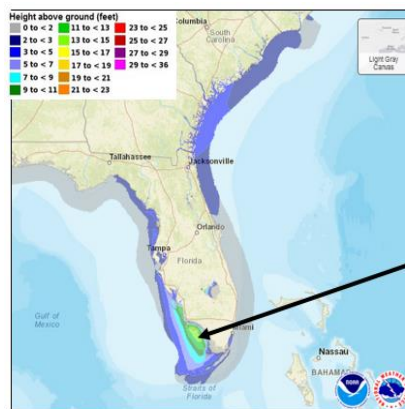


Senior Leadership Briefing
Hurricane Irma
Sunday, September 10, 2017 (5:00 a.m. EDT)
Updates in Blue

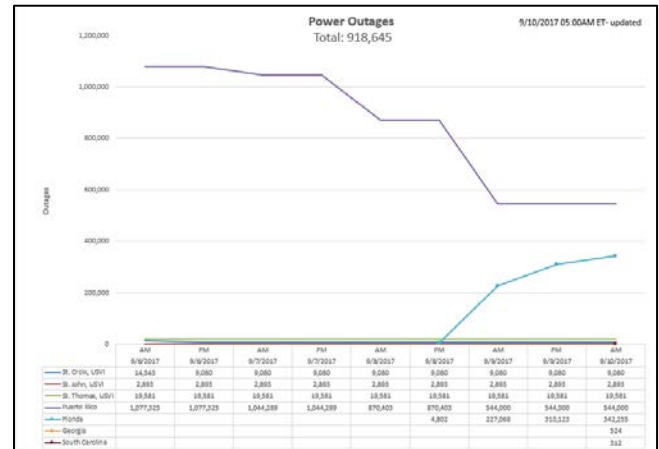
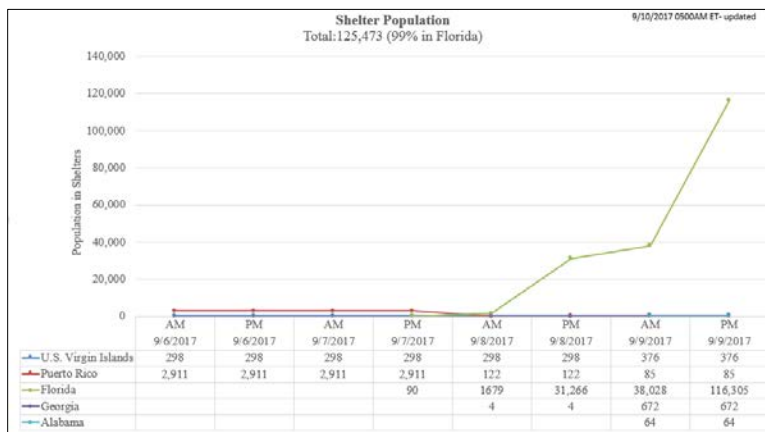
Current Situation:

At 5am EDT, Hurricane Irma was located 60 miles southeast of Key West, Florida with maximum sustained winds of 130 mph as a Category 4 Hurricane. On the forecast track, the center of Irma is expected to cross the Lower Florida Keys mid-morning and then move near and over portions of the west coast of Florida this afternoon through Monday morning. Irma should then move inland over the Florida panhandle and southwestern Georgia Monday afternoon. Irma expected bring life-threatening wind and storm surge to Florida Keys and southwestern FL as an extremely dangerous major hurricane today. There's an imminent danger of life-threatening storm surge flooding in portions of central and southern FL, including Florida Keys.

A Hurricane Warning is in effect from Fernandina Beach southward around the Florida peninsula to Indian Pass, including the Florida Keys and Tampa Bay. Hurricane conditions and the potential for significant damage are expected to begin this morning, then spread northward. A Storm Surge Warning is in effect from the South Santee River southward around the Florida peninsula to the Juniper Inlet, including the Florida Keys and Tampa Bay, where there is a danger of life-threatening inundation from rising water moving inland from the coastline. The worst storm surge impacts will likely occur between Captiva and Cape Sable where water is expected to reach 10 to 15 feet above ground if the peak surge occurs at the time of high tide. Irma is expected to produce rainfall amounts of 10 to 20 inches, locally 25 inches, in the Florida Keys and 8 to 15 inches, locally 20 inches, across the Florida peninsula and southeast Georgia through Wednesday. The NWS Weather Prediction Center has indicated a High Risk for flash flooding across these areas today. There is also potential for moderate to major river flooding starting Monday in the Florida peninsula, with localized record flooding possible. The greatest risk appears to be across the north-central Florida peninsula to near the Tampa Bay area. This risk may expand into portions of Georgia and South Carolina for Monday and Tuesday. Tornadoes are also possible today into tonight. (NOAA Update, September 10, 2017, 4:20 a.m. EDT)



Impact Summary:



• U.S. Virgin Islands and Puerto Rico (USVI/PR)

- **Fatalities:** four in USVI; one in PR (*Region II Update, September 8, 2017, 1:17 p.m. EDT*)
- **Shelters:**
 - USVI: Six shelters open with a population of 376 (*ESF 6 Update, September 10, 2017, 4:10 a.m. EDT*)
 - PR: Five shelters open with a population of 69 (*ESF 6 Update, September 10, 2017, 4:10 a.m. EDT*)
- **Hospitals:**
 - USVI: Schneider Regional Hospital in St. Thomas is closed and has been evacuated; 40 patients transferred to Guayama Municipality (*ESF-8 Update, September 10, 2017, 1:00 a.m. EDT*)
 - PR: One hospital closed; 25 hospitals running on generator power (*ESF-8 Update, September 9, 2017, 3:30 p.m. EDT*)
- **Power:**
 - USVI: Virgin Islands Water and Power Authority reported 6,905 customers on St. Croix and all customers on St. Thomas (19,581) and St. John (2,893) without power (*DOE SITREP #32, September 9, 2017, 4:30 p.m. EDT*)
 - PR: Currently 544,000 (-130,000) customers without power (*ESF-12 Update, September 9, 2017, 9:00 p.m. EDT*)
- **Critical Infrastructure:**
 - Airports:
 - USVI: St. Thomas is closed except for hurricane and military operations due to fence line repairs and will not open until at least September 12; all others are open (*FAA Update, September 9, 2017, 5:16 a.m. EDT*);
 - The Airspace Coordination Area (ACA) for USVI was reissued and is in effect until September 20, 2017; a special notice to airmen was issued on September 10, 2017, requiring extreme caution when operating aircraft within the vicinity of St. Thomas and St. Croix (*FAA Update, September 10, 2017, 2:08 a.m. EDT*)
 - Air tower in St. Thomas airport condemned (no power and no pumps); a mobile tower will be set up September 10, 2017 with air traffic control service capability (*ESF 1 Update, September 9, 2017, 4:00 p.m.*)
 - PR: San Juan Airport is open for all operations (*ESF-1 Update, September 8, 2017, 1:54 a.m. EDT*)
 - Ports:
 - Open with restrictions: Guayama, PR, Christiansted, St. Croix, and Cruz Bay, St. John
 - Closed: Culebra, PR and West Greggerie Channel, St. Thomas ports closed (*USCG Update, September 10, 2:54 a.m. EDT*)
 - Roads:
 - USVI: St. John – Preliminary reports indicate major damage on coastal roads, especially Coral Bay Road Route 107; further information on St. John pending the reopening of ferry service from St. Thomas (*ESF-2 Update, September 9, 2017, 4:00 p.m. EDT*)
 - USVI: St. Thomas – Road damage is difficult to fully assess due to downed debris and downed power lines; USVI Power Authority is working to remove/reestablish poles/lines (*ESF-2 Update, September 9, 2017, 4:00 p.m. EDT*)
 - USVI: St. Croix – Road damage is minimal (*ESF 1 Update, September 9, 2017, 4:00 p.m. EDT*)
 - PR: All interstates and major roads are open; damage assessments are ongoing and no damage has been reported at this time (*ESF-1 Update, September 10, 1:11 a.m. EDT*)

- **Water:**
 - USVI: 341,514 clients without potable water service; 280,845 are due to electrical power failure; facility assessments are ongoing (*ESF-10 Update, September 9, 2017, 11:37, a.m. EDT*)
 - PR: Estimated 580,000 people are in need of drinking water; PR Aqueduct and Sewer Authority has set up drinking water stations throughout the island to support this need; outages are suspected to be linked to power outages (*ESF-10 Update, September 9, 2017 4:09 p.m. EDT*)
- **Fuel/Gas:** Gas for automobiles/generators now available on St. Thomas but not yet distributed due to road damage; as of September 6, St. Croix has 13 day supply for diesel, 15 day supply for petroleum gas; St. Thomas has 18 day supply for diesel and 20 day supply for petroleum gas (*ESF-1 Update, September 9, 2017, 1:37 p.m.. EDT*)
- **Public transit:**
 - USVI: No power; transit is not in operation at this time (*ESF-1 Update, September 9, 2017, 11:29 p.m. EDT*)
 - PR: Services are slowly resuming
 - Ferry service: full service will resume to Vieques; Culebra ferry service continues to be limited and strictly for relief operations
 - Rail: Tren Urbano remains down due to power outage from San Francisco to Bayamon stations
 - Bus: Puerto Rico Metropolitan Bus Authority and First Transit systems are back to normal operations, but no service after 6:00 p.m. EDT due to unsafe traffic conditions after dark (*ESF-1 Update, September 9, 2017, 11:29 p.m.. EDT*)
- **Florida**
 - **Evacuations:**
 - Mandatory full or partial evacuations in place for at least 30 counties, including Brevard, Broward, Citrus, Clay, Collier, Dixie, Duval, Flagler, Glades, Gulf, Hendry, Hernando, Hillsborough, Indian River, Lee, Levy, Martin, Miami-Dade, Monroe, Orange, Palm Beach, Pasco, Pinellas, St. Johns, St. Lucie, Sarasota, Sumter, Taylor, Volusia, and Wakulla
 - Voluntary full or partial evacuation in place for at least 16 counties: Alachua, Baker, Bay, Bradford, Charlotte, Columbia, Desoto, Hardee, Highlands, Jefferson, Lake, Leon, Manatee, Okeechobee, Osceola, and Polk (*Florida Division of Emergency Management, September 10, 2017, 4:28 a.m. EDT*)
 - **Shelters:** 454 shelters open with a population of 124,264 (*ESF 6 Update, September 10, 2017, 4:10 a.m. EDT*)
 - **Hospitals:** 34 hospitals are reported closed; evacuating 204 healthcare facilities (18 hospitals); 20 ambulances are stationed at Manatee Memorial Hospital and are evacuating patients (*ESF-8 Update, September 10, 2017, 1:00 a.m. EDT*)
 - **Schools and Businesses:** All public schools K-12, states colleges and universities, and state offices closed through September 11, 2017 (*FL Department of Education, September 10, 2017, 4:00 a.m.*)
 - **Power:** Currently 342,255 customers without power (*DOE update, September 10, 2017, 3:45 a.m. EDT*)
 - **Critical Infrastructure:**
 - Airports:
 - The ACA for southern Florida was reissued on September 10, 2017 and is in effect until September 20, 2017; an ACA for northern Florida in effect starting September 10, 2017 and effect until September 20, 2017 (*ESF-1 Update, September 10, 2017, 3:30 a.m. EDT*)
 - Closed: Orlando Sanford Int'l (SFB), Tampa Int'l (TPA), St. Petersburg/Clearwater Int'l (PIE), Key West (EYW), Sarasota/Bradenton Int'l (SRQ), Fort Lauderdale/Hollywood Int'l (FLL), Melbourne Int'l (MLB), Boca Raton (BCT), North Perry (HWO), Marathon Int'l (MTH), Pompano Beach (PMP), Kissimmee (ISM), Orlando (MCO), and Albert Whitted (SPG) airports
 - Closed except for emergency aircraft/military operations: Opa-Locka Executive (OPF), Miami Int'l (MIA), Miami Executive (TMB), Vero Beach (VRB), and Naples (APF) airports (*ESF-1 Update, September 9, 2017, 10:04 p.m. EDT*)
 - Ports: All ports in Florida are closed, except Egmont Key, which is open with restrictions (*USCG Update, September 10, 2017, 2:54 a.m. EDT*)

- Roads/Bridges:
 - Congestion on major roadways decreasing with speeds returning to normal highway limits *(ESF-1 Update, September 9, 2017, 11:18 p.m. EDT)*
 - Moveable bridges will close to traffic, secure, and lock down when wind speeds reach 39 mph; Skyway Bridge (NFI) locked in down position since September 9 at approximately 11:00 p.m. EDT *(ESF-1 Update, September 10, 2017, 1:07 a.m. EDT)*
 - Federal Highway Administration providing 150 structural engineers to perform bridge inspections on the 2,000+ structures in the state of Florida *(ESF-1 Update, September 9, 11:38 a.m. EDT)*
- Railways: Operations shut down for all FL commercial and passenger railroads on September 9 *(ESF-1 Update, September 10, 2017, 1:07 a.m. EDT)*
- Public Transit: Nearly all Southern Florida transit operators have suspended operations unless being used for evacuations or shelter support *(ESF-1 Update, September 9, 2017, 11:27 a.m. EDT)*
- **Georgia**
 - **Shelters:** 34 shelters open with a population of 4,413 *(ESF 6 Update, September 10, 2017, 4:10 a.m. EDT)*
 - **Hospitals:** 32 medical facilities evacuated, including 13 hospitals *(ESF-8 Update, September 10, 2017, 4:00 a.m. EDT)*
 - **Critical Infrastructure:**
 - Roads/Bridges:
 - I-16 contra-flow ended at 4:00 p.m. EDT on September 9th *(Region IV Trifold, September 9, 2017, 5:00 p.m. EDT)*
 - All I-75 southbound express lanes opened in the northbound direction at no charge until further notice *(ESF-1 Update, September 9, 2017, 11:15 a.m. EDT)*
 - Ports: All ports in GA are closed *(USCG Update, September 10, 2017, 2:54 a.m. EDT)*
 - Power: 842,895 projected to be without power after landfall *(DOE Update, September 9, 2017, 2:00 p.m. EST)*
- **Seminole Tribe of Florida**
 - **Shelters:** Five shelters open with a population of 77 *(Tribal Liaison, September 9, 2017, 1:44 p.m. EDT)*
- **Alabama**
 - **Evacuations:** Governor has not yet issued a general evacuation *(Region IV SitRep, September 9, 2017, 4:00 p.m. EDT)*
 - **Shelters:** five shelters open with a population of 0 *(ESF 6 Update, September 10, 2017, 4:10 a.m. EDT)*
 - Hotels in AL southern counties 100% full *(Alabama EMA Update 12:30 Interagency VTC, September 8, 2017, 12:30 p.m. EDT)*
 - **Power:** 110,942 projected to be without power after landfall *(DOE Update, September 9, 2017, 2:00 p.m. EST)*
- **South Carolina**
 - **Evacuations:** Governor ordered evacuation of barrier islands including: Edisto Beach in Colleton County; Daufuskie, Fripp, Harbor, Hunting and Hilton Head Islands in Beaufort County; and Knowles and Tullifiny in Jasper County beginning no later than 10:00 a.m. EDT September 9 *(FEMA Region IV Sit Rep, September 9, 2017, 5:00 p.m. EDT)*
 - **Shelters:** three shelters open with a population of 245 *(ESF 6 Update, September 10, 2017, 4:10 a.m. EDT)*
 - **Hospitals:** 140 healthcare facilities in coastal counties evacuating *(ESF-8 Update, September 9, 2017, 1:52 p.m. EDT)*
 - **Critical Infrastructure**
 - Roads:
 - Restricted lane closures for non-emergency highway work; plans to have assets in place to implement contraflow traffic if needed to assist with evacuations *(ESF-1 Update, September 9, 2017, 11:21 p.m. EDT)*
 - Heavy traffic flows on interstates coming out of Georgia; traffic is congested (15-20 mph) on I-95 for approximately 20 miles into SC, but not congested on I-20 and I-85 *(ESF-1 Update, September 9, 2017, 11:21 p.m. EDT)*
 - Ports: All ports are open *(USCG Update, September 10, 2017, 2:54 a.m. EDT)*
 - Rail: SC railroads shutting down operations on September 9 *(ESF-1 Update, September 10, 2017, 1:13 a.m. EDT)*
 - Power: 17,382 projected without power *(DOE Update, September 9, 2017, 2:00 p.m. EST)*
- **North Carolina**
 - **Shelters:** Four shelters open with a population of 0 *(ESF 6 Update, September 10, 2017, 4:10 a.m. EDT)*
 - **Critical Infrastructure:**
 - Roads:
 - All lane closures on major NC routes, including Interstates, suspended beginning Friday, September 8 at 7:00 p.m. EDT to accommodate evacuees impacted by the hurricane

- NCDOT is coordinating with the SCDOT and the GDOT to handle evacuation traffic coming north on I-95, I-77, and I-26; NCDOT Incident Management Assistance Patrol (IMAP) will be working on all major north-south evacuation routes to assist motorists (*ESF-1 Update, September 9, 2017, 11:21 p.m. EDT*)

- **Tennessee**

- **Shelters:** Five shelters open with a population of 36 (*ESF 6 Update, September 10, 2017, 4:10 a.m. EDT*)

Declaration Activity:

State/Region	Declaration	Declared Counties	
Region II		IA	PA
U.S Virgin Islands	9/7: DR-4335	St. Thomas; St. John	All
Puerto Rico	9/5: EM-3384	-	-
Region IV		IA	PA
Florida	9/5: EM-3385	-	-
South Carolina	9/7: EM-3386	-	-
Georgia	9/7: EM-3387	-	30 counties
Seminole Tribe of Florida	9/8: EM-3388	-	Whole Tribe

(Office of Response and Recovery Update, September 9, 2017, 5:00 p.m. EDT)

- The President amended FEMA-4335-DR-VI and authorized a 90 percent Federal cost share for debris removal and a 100 percent Federal cost share for emergency protective measures for 30 days from the start of the incident period, and then a 90 percent Federal cost share thereafter (*Office of Response and Recovery Update, September 9, 2017, 11:27 p.m. EDT*)

Federal Force Laydown:

Department/Agency	Personnel Deployed		Department/Agency	Personnel Deployed	
	IRMA	Delta		IRMA	Delta
FEMA – Deployed	1,342	(+143)	National Weather Service- NOAA	363	(0)
FEMA – Other Support	527	(-182)	National Guard	3,934	(-309)
Urban Search & Rescue	1,301	(+2)	DOD – Title 10	3,607	(+1252)
Health and Human Services	333	(+99)	General Services Administration	8	(-1)
Department of Transportation	25	(0)	U.S. Army Corps of Engineers	129	(+67)
United States Coast Guard	767	(+710)	Department of the Interior	92	(+2)
DHS – NPPD*	32	(+27)	USDA - U.S. Forest Service	20	(0)
Department of Energy	23	(+10)	Small Business Administration (SBA)*	-	(0)
US Department of Agriculture	8	(+3)	Transportation Security Administration	16	(0)
Law Enforcement (ESF 13)	462	(+84)	Housing and Urban Development*	-	(0)
Customs and Border Protection	102	(0)	Department of State	-	(0)
Civil Air Patrol	47	(0)	Environmental Protective Agency (EPA)*	-	(0)
Immigration and Customs Enforcement	-	(0)	Total	13,138	(+1907)

*Number of Personnel Unknown/Not Reported
(Situational Awareness Info Analysis, September 10, 2017 4:30 a.m. EDT)

FEMA Headquarters:

- **Recovery**

- Individual Assistance registrations in USVI total 172, which is approximately 1.3% of total forecast and 0.4% of total households in the disaster area (*Pre-Processing and Referral Statistics, September 9, 2017, 11:04 p.m. EDT*)
- Surge staffing continues for FEMA Strategic Workforce Augmentation Team for taking calls from three National Processing Service Centers, FEMA pop-ups, Headquarters, Regions, and from home; 3,365 call center agents are expected to be online today (*Recovery Contact Center Surge Staffing timeline, September 9, 2017, 11:00 a.m. EDT*)
- 33 Disaster Survivor Assistance cadre members in support Hurricane Irma (*DSA Cadre Management Section update, September 9, 2017, 9:50 a.m. EDT*)

- **Federal Insurance and Mitigation Administration**

- Flood insurance: Policies in Force in projected path of Irma: Approximately 2.2M (*FIMA Update, September 9, 2017, 3:00 p.m. EDT*)

- **Mutual Aid**

Region	Jurisdiction	# of Request(s)	# of States Supporting
II	USVI	1	1
IV	FL	83	24
IV	GA	1	1
IV	SC	0	2

(EMAC SitRep #28, September 10, 2017, 1:00 a.m. EDT)

- **Commodities at ISBs and Pre-Positioning Sites**

KEY

Ordered Qty - refers to the total amount that has been requested to send down to FEMA Staging Sites

Shipped Qty - refers to the total amount that has been shipped to FEMA Staging Sites

Received Qty - refers to the total amount that has been received at FEMA Staging Sites

Shipped to State Qty - refers to the total amount that has been shipped to the State

Product Class	Ordered Qty	Shipped Qty	Received Qty	Shipped To State Qty
Blanket	98,576	81,778	53,676	0
Cot	48,026	46,000	32,013	2,964
Fuel	50,000	0	0	0
Gen	276	244	214	0
Hygiene	370,000	59,496	50,000	0
Meal	36,257,333	12,965,530	9,791,501	459,937
Sheeting	42,965	15,653	14,981	0
Tarp	143,248	120,298	106,500	1,664
Water	33,076,407	17,635,317	14,473,527	347,256

Infant Toddler Breakdown

Item Description	Ordered Qty	Shipped Qty	Received Qty	Shipped to State Qty
Infant and Toddler Kit (Supports 10 Infants/Toddlers for 7-Days)	688	15	0	0
Perishable Infant Toddler Kit, contains only perishable items	70	48	0	0
Non-Perishable Infant Toddler Kit, contains only non-perishable i	0	24	0	0
Overall - Total	758	87	0	0

(ESF 7 Update, September 10, 2017, 3:30 a.m. EDT)

FEMA Region II:

- RRCC at Level I day shift, Level II night shift with ESF 1,3,6, 8,12,13,& 15 (Region II SitRep., September 9, 2017, 5:00 p.m. EDT)
- FEMA Region II IMAT locations:
 - Region II IMAT-A in St. Croix; Region II IMAT-B in St. Thomas; Region II IMAT-C in PR
 - Region X IMAT: San Juan, PR (FOD Update, September 8, 2017, 1:00 a.m. EDT)
- Staff from FEMA Caribbean Area Division in PR providing support to Commonwealth and local officials
- **U.S. Virgin Islands**
 - EOC at Full Activation (Region II SitRep, September 9, 2017, 5:00 p.m. EDT)
- **Puerto Rico**
 - EOC at Level IV, Full Activation (Region II SitRep, September 9, 2017, 5:00 p.m. EDT)

FEMA Region III:

- RRCC returned to Watch/Steady State on September 9 (Interagency VTX., September 9, 2017, 12:30 p.m. EDT)
- Virginia: State EOC activated to Level II, as of September 9 (Region III Spot Report, September 9, 2017, 4:00 p.m. EDT)

FEMA Region IV:

- RRCC at Level I (Full Activation) (Region IV Daily Sit Rep., September 9, 2017, 1:30 p.m. EDT)
- **HQ National Tribal Affairs Advisor deploying to RIV RRCC** (Region IV trifold, September 9, 2017, 5:00 p.m. EDT)

- Region IV IMAT-1 at FL EOC and Region IV IMAT-2 at SC EOC
- Region IV Liaison Officers on site at [AL and NC EOCs \(1 each\)](#) (*Region IV trifold, September 9, 2017, 5:00 p.m. EDT*)
- **Florida**
 - EOC at Level I (Full Activation) (*Region IV Daily Sit Rep., September 9, 2017, 1:30 p.m. EDT*)
 - State of Emergency declared for 67 counties (*FEMA Region IV SITREP #1, September 5, 2017, 7:44 p.m. EDT*)
 - [FEMA Initial Operating Facility operational in Tallahassee](#) (*Region IV trifold, September 9, 2017, 5:00 p.m. EDT*)
- **Seminole Tribe of Florida**
 - EOC at Full Activation (24/7, all ESFs) (*Region IV Daily Sit Rep., September 9, 2017, 1:30 p.m. EDT*)
 - Seminole Tribe has multiple reservation areas throughout FL that are non-contiguous. Four reservations are in the direct path of Irma: Big Cypress, Hollywood, Immokalee, and Tampa (*Tribal Liaison, September 9, 2017, 1:44 p.m. EDT*)
- **Georgia**
 - EOC at Level I (Full Activation) (*Region IV Daily Sit Rep., September 9, 2017, 1:30 p.m. EDT*)
 - Governor revised state of emergency expanded to 94 counties (*Georgia Emergency Management and Homeland Security Agency, September 8, 2017, 4:08 p.m. EDT*)
- **Alabama:** EOC a Level I (Full Activation). Governor issued state of emergency September 8 (*Region IV Daily Sit Rep., September 9, 2017, 1:30 p.m. EDT*)
- **North Carolina:** EOC at Level III (Partial Activation) (*Region IV Daily Sit Rep., September 9, 2017, 1:30 p.m. EDT*)
- **South Carolina:** EOC at OPCON 1 (Full Activation) (*Region IV Daily Sit Rep., September 9, 2017, 1:30 p.m. EDT*)

Interagency Coordination/Response:

- **ESF-1: Transportation**
 - USVI/PR:
 - DHS waived Merchant Marine Act of 1920 ("Jones Act") allowing international vessels to dock at American seaports; acting DHS Secretary approved request effective September 8, 2017, for seven days (*ESF 1 Update, September 8, 2017, 4:00 p.m. EDT*)
 - CONUS [Anticipated impacts](#):
 - [Port facilities in western FL will experience low to medium physical damage due to storm surge and wind damage, loss of power and communications, and blockages of roadways and rail; individual port facilities could close for weeks](#)
 - [The Ports of Miami and Key West will likely experience substantial damage due to storm surge and high winds and may be closed for weeks for repairs; additional ports in southern FL will also likely experience light to moderate damage](#)
 - [Interstates, state highways, and local roads in southern and central FL will be blocked by storm surge and debris, hindering evacuations and emergency response; damage to one or more of the 42 bridges on Route 1 connecting Key West to mainland Florida is likely and will result in isolation of communities in the Keys and hinder recovery until the bridges are repaired, as will damage to bridges serving barrier islands in west FL](#)
 - [Restoration of commercial air operations will begin once storm has passed and damage assessments are completed; low-lying areas major airports in western and southern FL may be inundated by storm surge, which can damage runways and airport equipment and delay re-opening to commercial traffic by several days](#) (*ESF-1 Update, September 10, 2017, 2:31 a.m. EDT*)
- **ESF-2: Communications**
 - USVI/PR:
 - [Mobile Emergency Response Support \(MERS\) is supporting FEMA Incident Management Assistance Team \(IMAT\), Urban Search and Rescue \(US&R\), National Disaster Medical System \(NDMS\) teams in Puerto Rico, St. Croix, St. Thomas, and St. John](#)
 - [Maynard MERS airlift of communications vehicles and equipment is expected to arrive on September 10, 2017 from Westover Air Force Base, MA to St. Thomas](#) (*ESF-2 Update, September 10, 2017, 1:30 a.m. EDT*)
 - [Debris and repair crew caused additional damage to surviving telecom infrastructure](#) (*ESF-2 Update, September 9, 2017, 11:30 p.m. EDT*)

- MERS is currently identifying what Land Mobile Radio (LMR) assets in their cache can be shipped to meet demand in USVI; Secret Service also identified a cache of radios that could potentially be used (*ESF-2 Update, September 9, 2017, 2:01 p.m. EDT*)
- The focus for telecommunications industry in St. Thomas and St. John is restoration of the broadband network and towers; repairs are currently underway (*ESF-2 Update, September 9, 2017, 2:13 p.m. EDT*)
- Cell Towers (tower status is result of voluntary reporting, the same number of towers do not report everyday):
 - St. Croix: 11 of the 40 (27.5%) cell towers are out of service
 - St. John: 9 of the 10 (90%) cell towers are out of service
 - St. Thomas: 45 of the 57 (78.9%) cell towers are out of service; communication off the island remains sporadic, indicating possible switch outages
 - PR: 511 of the 1743 (29.3%) cell towers are out of service; 20% of the operational towers are on backup power and will require refueling in the next one to two days (*ESF-2 Update, September 10, 2017, 1:30 a.m. EDT*)
- PR Public Service Answering Points are operational (*ESF-2 Update, September 9, 2017, 11:30 p.m. EDT*)
- CONUS: MERS and Mobile Communications Office Vehicle assets assigned to support FEMA IMAT, US&R, ESF-8 NDMS, and Incident Staging Base teams on site in FL, GA, and SC and will arrive by September 10 (*ESF-2 Update, September 10, 2017, 1:30 a.m. EDT*)
- **ESF-3: Public Works and Engineering**
 - USVI
 - Eight of 11 requested generator installation assessments completed, one of which was a water treatment plant, to determine size requirements for generators; USACE to confirm the time expected to complete the remaining assessments tonight (*ESF-3 Update, September 9, 2017, 3:30 p.m. EDT*)
 - Advanced Echelon Teams conducting inspections in St. Thomas by rotary wing (*ESF-3 Update, September 8, 2017, 12:53 p.m. EDT*)
 - PR
 - 73 FEMA generators staged in PR (*ESF-3 Update, September 9, 2017, 12:43 p.m. EDT*)
 - 350,000 cubic yards of debris has been identified to be cleared (*Senior Leader VTC, September 9, 2017, 12:30 p.m. EDT*)
 - FL
 - \$30M Direct Federal Assistance Temp Roofing mission assignment in place; activating Temporary Roofing Planning and Response Teams (PRTs) and Advanced Contract Initiative (ACI) contractors
 - \$3M amendment to Federal Operational Support debris mission assignment to activate Debris PRT and ACI Contractor to respond to requests for emergency route clearance in place (*ESF-3 Update, September 10, 2017, 2:33 a.m. EDT*)
- **ESF-4: Firefighting**
 - USVI: Based on the preliminary information received from Incident Management Team (IMT), fire stations on St. Thomas and St. Johns appear to be the most severely affected; assessments are ongoing
 - Two fire stations have reported serious structural damage
 - Three additional fire stations are closed or operations are compromised due to lack of water and electrical power
- **ESF-6: Mass Care, Emergency Assistance, Housing, and Human Services**
 - **USVI/PR**
 - PR: Salvation Army: Sheltering and feeding 40 individuals on dialysis
 - St. Thomas
 - Salvation Army: Multiple feeding stations are operating for first responders and power company workers; prepared meals and clean up kits distributed in Northeast communities; arranging for the shipment of generators, MRE's, clamshells, gas cans (still in boxes), water, cambros, tarps, cleanup kits, satellite phones, gas powered saw, work gloves and other items
 - American Red Cross: Volunteers to arrive in USVI on September 10th
 - CONUS
 - FL: Salvation Army – emergency staging areas in Manatee, Sarasota and DeSoto counties; 32 mobile feeding units and supporting equipment positioned ready to deploy

- GA: Southern Baptist Disaster Relief – six kitchens ready to prepare 40,000 meals (can be expanded to 550,000 meals), and access to chain saw and mud out teams (*ESF-6 Update, September 10, 2017, 1:47 a.m. EDT*)
- **ESF-7: Logistics Management and Resource Support**
 - USVI:
 - 199,000 meals and 107,000 liters of water on site (*RSS Update, September 10, 2017, 5:00 a.m. EDT*)
 - Air bridge is up and running to move supplies island to island via air
 - One sea bridge will arrive in St. Thomas on September 19, 2017 and one will arrive in Puerto Rico on September 18, 2017 (*ESF-7 Update, September 10, 2017, 5:00 a.m. EDT*)
 - SS Wright will depart from Philadelphia, PA on September 12 and estimating arrival at St. Thomas September 15; Wright will be bringing 45 40-foot containers of food, 20 vehicles (16 cars and 4 vans), and a Polaris. Ship is capable of making potable water for distribution to the general population (*RSS Update, September 9, 2017, 11:29 a.m. EDT*)
 - PR: 320,000 meals, 700,000 liters of water, and 70 generators on site; an additional 1M+ meals and 1.3M+ liters of waters have arrived for transportation to the island from New Jersey (*RSS Update, September 10, 2017, 5:00 a.m. EDT*)
 - FL:
 - 9.4M meals, 10.7M liters of water, and 215 generators on site (*RSS Update, September 10, 2017, 5:00 a.m. EDT*)
 - GSA reports 414 federally owned or leased buildings in the current path of the storm (90 buildings closed) (*GSA liaison, September 9, 2017, 1:30 p.m. EDT*)
 - GA: GSA reports 21 federally owned or leased buildings in the path of the storm with 13 closed (*GSA liaison, September 9, 2017, 1:30 p.m. EDT*)
- **ESF-8: Public Health and Medical Services**
 - USVI and PR:
 - 3 Disaster Medical Assistance Teams (DMAT), 1 Incident Response Coordination Team (IRCT), and 1 Health and Medical Task Force (HMTF) are supporting operations (*ESF-8 Update, September 10, 2017, 1:39 a.m. EDT*)
 - FL:
 - State is looking to source 1,000 medical evacuation requests using a broad recruiting strategy across EMAC, Medical Reserve Corps (*ESF-8 Update, September 10, 2017, 1:30 a.m. EDT*)
 - FEMA is activating home health aide contracts to send 250 aides to work in shelters
 - Red Cross is recruiting nurses, but a final number is not yet available (*HHS/ASPR, September 9, 2017, 1:30 p.m. EDT*)
 - FL requested 200 medical experts via EMAC
 - One Rapid Deployment Force (RDF) in Fort Myers
 - Deploying to Orlando or Gainesville: 6 DMATs, 1 Service Access Team (SAT), 1 Incident Response Coordination Team (IRCT) Forward, 1 Disaster Mortuary Operational Response Team (DMORT), and 1 Mobilization Team (MOB) (*ESF-8 Update, September 10, 2017, 2:30 a.m. EDT*)
 - Approximately 500 doctors and medical personnel arrived in Orlando, FL by DOD air on September 9, 2017 (*ESF-8 Update, September 10, 2017, 4:13 a.m. EDT*)
 - GA: 1 IRCT in Valdosta (*ESF-8 Update, September 10, 2017, 1:00 a.m. EDT*)
- **ESF-9: Search and Rescue**
 - USVI/PR:
 - Two task forces arrived in San Juan via DoD airlift to join the one task force conducting search and rescue operations in St. Thomas and St. John
 - FEMA deployed US&R Mission Ready Packages consisting of Live-Find Canine Search teams, Human Remains Detection Canine Search teams, and Logistics teams
 - CONUS: 12 task forces assigned to Region IV have an embedded Type 1 Swiftwater Rescue Team (*ESF 9 Update, September 9, 2017, 7:00 p.m. EDT*)
- **ESF-10: Oil and Hazardous Materials Response**
 - USVI/PR
 - Pipeline repairs underway, with some services being restored, including pipeline service to San Juan International Airport; lack of power, damages, and limited communications impacting restorations (*ESF-10 Update, September 10, 2017, 1:30 a.m. EDT*)

- Preliminary reports from a few regulated oil and chemical facilities in PR have reported no damage; a list of high risk facilities has been compiled and instances of regulated facilities that suffer damage will be prioritized for subsequent ground assessment
- Superfund sites: One lead cleanup site is unaffected and cleanup operations resumed on September 8th, on generator power; a second site containing a drinking water filtration system for community is not operational due to power outage. The EPA Federal On-Scene Coordinator is looking at alternative options to restore filtration
- The USCG National Response Center has received 5 reports of actual or potential pollution related to Hurricane Irma
- CONUS
 - Pipeline owner/operators have taken protective actions including stopping operations (*ESF-10 Update, September 10, 2017, 1:30 a.m. EDT*)
 - In advance of Irma, EPA has developed a list of approximately 150 regulated oil and chemical facilities, 38 Superfund sites, and 51 waste water treatment plants of potential concern, within Florida's southernmost 100 miles. These lists are refined further based on Irma's path, storm surge, and 100/500-year flood map predictions (*ESF-10 Update, September 9, 2017, 2:00, p.m. EDT*)
- **ESF-11: Agriculture and Natural Resources**
 - Nongovernmental entities partnering with local entities in Florida to transport animals available for adoption to animal shelters nationwide (*ESF-11 update, September 9, 2017, 7:19 p.m. EDT*)
 - National Animal Rescue and Sheltering Coalition assets are staged in and around Florida prepared to support both Florida and Georgia with animal assessment teams, animal search and rescue teams, animal transport teams, and animal sheltering teams
 - USDA is sourcing resource requests to support Florida post-storm to address animal issues, including a pet shelter liaison (*ESF-11 SitRep, September 9, 2017, 2:14 p.m. EDT*)
- **ESF-12: Energy**
 - USVI
 - WAPA brush and line crews clearing debris and power circuits down in St. Johns and St. Thomas; the overhead system is completely damaged; Virgin Islands Water and Power Authority (WAPA) provided DOE a list of supplies requested for recovery (*DOE update, September 9, 2017, 11:37 p.m. EDT*)
 - Restoration of power for the airport, hospital and adjacent buildings on St. Thomas began; restoration of the airport will provide power to Virgin Islands Territorial Emergency Management Agency
 - Randolph Harley Power Plant on St. Thomas has one operational backup generator
 - Power is restored to St. Thomas: airport, hospital, Lockhart Elementary School, Charlotte Amalie High School and a pump station (*RII ESF-12 Update, September 10, 2017, 12:00 a.m. EDT*)
 - All underground feeders in St. Croix are operational; WAPA is continuing restoration efforts in St. Croix as crews continue to restore power; no timeline for completion of restoration available (*ESF-12 update, September 8, 2017, 9:12 p.m. EDT*)
 - PR: DOE is facilitating the movement of mutual aid crews to the island with utilities, Electricity Sub-Sector, FEMA, and other interagency partners (*ESF-12 Update, September 8, 2017, 4:00 p.m. EDT*)
 - CONUS:
 - Turkey Point Nuclear Plant Unit 3 completed shut down on September 9, 2017 (*ESF-12 Sitrep, September 10, 2017, 3:30 a.m. EDT*)
 - More than 1,000 mutual aid crews have begun staging resources closer to the predicted impacted areas (*DOE Sit Rep, September 9, 2017, 3:30 p.m. EDT*)
- **ESF-13: Public Safety and Security**
 - USVI/PR:
 - A prison in the USVI evacuating with EMAC support; no federal assistance required (*Region II email, September 10, 2017, 1:31 a.m. EDT*)
 - Three Quick Response Teams (QRTs) are deployed to San Juan PR in support of ESF 8 & ESF 9 operations in PR and USVI; a third US Forest Service QRT arrived night of September 8, 2017 (*ESF-13 SitRep, September 9, 2017, 11:12 a.m.*)

- CONUS:
 - Seminole Tribe in Florida requested Bureau of Indian Affairs Law Enforcement support through FEMA; [all agencies notified and on standby, awaiting final request from Seminole Tribe for action \(DoI Update, September 10, 2017, 1:42 p.m. EDT\)](#)
 - One QRT was deployed to Eglin AFB and linked to US&R for airlift deployment into south Florida post landfall
 - One QRT was flown to Orlando, FL to provide security for the two prepositioned DMATs
 - Eight QRTs (200 personnel), five mobile bunk houses, and six mobile command vehicles will stage at Moody Air Force Base (AFB); Moody AFB initiating a staging area today and is expected to be operational 12:00 p.m. EDT September 10, 2017
 - 20 additional QRTs will be on stand-by at their home bases *(ESF-13 SitRep, September 9, 2017, 11:12 a.m. EDT)*
- **ESF-15: External Affairs**
 - [Social Media: Power outages reported from Key West to Miami-Dade to Broward county; people are seeing the effects of the storm \(ESF-15 Update, September 9, 2017, 11:36 p.m. EDT\)](#)
- **U.S. Coast Guard**
 - [USVI/PR: Post-storm operations continuing; mission focus is transitioning from rescue to port recovery, environmental response, and salvage operations](#)
 - [CONUS: Pre-storm arrival preparations to safeguard personnel and their families along with ensuring USCG ability to respond throughout the impacted area continue from the Caribbean to the southeast and mid-Atlantic region; USCG cutters and aircraft in these areas being moved for storm avoidance to maximize post-storm response capability](#)
 - [USCG is staffing ESF-15 request to provide USCG mass communications/public affairs specialist support to the National Joint Information Center \(USCG Update, September 10, 2017, 3:05 a.m. EDT\)](#)
- **U.S. Department of Defense (DoD)**
 - The USS Iwo Jima, USS New York, and USS Abraham Lincoln departed Norfolk on September 8, 2017 with Defense Support of Civilian Authorities package and are prepared to support, where required
 - USS Oak Hill and USS Kearsarge on station and supporting relief operations in USVI
 - Pursuing solutions to provide a temporary ground medical treatment facility on St. Thomas, USVI to augment the damaged hospital as a 24-72 hour holding facility until patients can be transported via the airport
 - Placed Defense Support of Civil Authorities Category I, II and III SAR forces, strategic and vertical lift, planning, communication and medical capabilities on orders to prepared to deploy to facilitate a timely response following landfall *(DoD Update, September 9, 2017, 2:42 p.m. EDT)*
 - US Transportation Command (USTRANSCOM): SOUTHCOM mission to evacuate [567](#) American Citizens from St Martin using Air National Guard and DoD Title 10 assets [completed \(DoD Update, September 10, 2017, 12:37 a.m. EDT\)](#)
 - Defense Logistics Agency (DLA):
 - [Received MA for \\$19M to lease up to 51 generators; all 42 generators delivered to respective locations and accepted by FEMA \(DoD Update, September 10, 2017, 12:37 a.m. EDT\)](#)
 - [Increased meal delivery mission assignment to \\$159M to include MREs and shelf-stable meals starting September 11, 2017, to Ellenwood, GA extended support date to September 30 \(DoD Update, September 10, 2017, 12:37 a.m. EDT\)](#)
 - Delivering and distributing total of 300,000 gallons of gasoline and diesel by September 9, 2017
 - Continuing to divert remaining meals dedicated for Harvey to Maxwell AFB, AL in support of Irma *(DoD Update, September 9, 2017, 2:42 p.m. EDT)*
- Civil Air Patrol (CAP):
 - [Two aerial photography sorties completed or underway \(DoD Update, September 10, 2017, 12:37 a.m. EDT\)](#)
 - [97 volunteers signed into mission \(DoD Update, September 10, 2017, 12:37 a.m. EDT\)](#)
 - [Approval of MA amendment, increasing amount by \\$10,000 and extending coverage to September 30, 2017 \(DoD Update, September 10, 2017, 12:37 a.m. EDT\)](#)
 - Flew two aircraft (aerial photography) over St Thomas, VI; specifically, provided images and assessment of damage Schneider and Kimelman Cancer Institute, solar panel field, Cyril E. King Airport, and Water and Power Authority Station

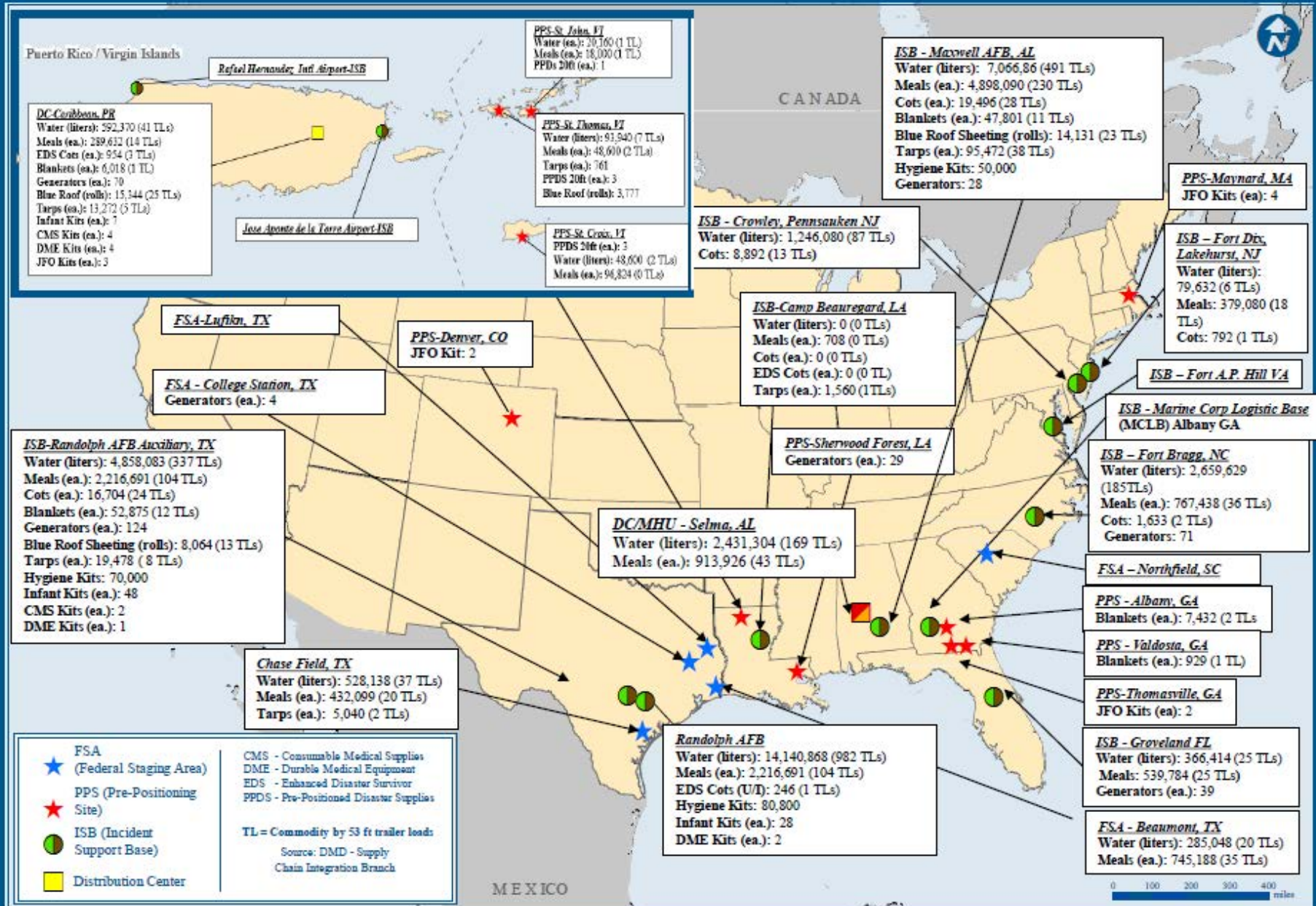
- Relocating two additional Cessna 182 crews from the mainland, estimated time of arrival in PR of 1600, September 8, 2017, and expects to be operational on September 9, 2017, for a total of three aircraft for imagery flights (*DoD Update, September 9, 2017, 2:42 p.m. EDT*)
- **National Guard**
 - USVI:
 - A 40 soldier Quick Reaction Force moved to St. Thomas to assist local police
 - Joint Expeditionary Team has re-established stable communications and is sending regular SITREPs
 - FL:
 - 25 shelters being opened by guard elements, some in response to the westerly track shift of Irma
 - Coordinating additional EMACs; continue integration of 38th Infantry Division into the command team, complete reception for SC and AL Battalions expected to arrive prior to landfall (*NGB Update, September 9, 2017, 12:56 p.m. EDT*)
- **U.S. Department of the Interior (DOI)**
 - USVI/PR:
 - U.S. Geological Survey (USGS) reports 5 streamgages in PR damaged or destroyed
 - National Parks Service (NPS):
 - Christiansted National Historic Site and San Juan National Historic Site closed but may reopen September 11 if commercial power restored
 - NPS teams conducting damage assessments and debris clearance from roads
 - Employees from San Juan National Historic Site assisting with response operations at US Virgin Islands National Park
 - US Fish and Wildlife Service (FWS): Two 20-person crews partnering with Forest Service personnel onsite to begin clearing roads and debris; Incident Management Teams will mobilize four Heavy Equipment Task Forces to clear roads and debris
 - CONUS:
 - 13 Caribbean-Florida Water Science Center personnel assessed and repaired damaged gages in FL
 - 10 USGS personnel have deployed 41 surge sensors and seven rapid deployment gages in GA
 - NPS:
 - FL: All NPS parks are closed and employees have evacuated from the Florida Keys
 - GA: Cumberland Island National Seashore, Fort Frederica National Monument and Fort Pulaski National Monument are closed
 - SC: Congaree National Park is closed
 - FWS reports 54 of 157 stations in the storm track are closed to the public as of September 9, 2017
 - Two Special Operations Response Team teams will assist with reconnaissance and post-storm assessments down the east and west coasts of FL
 - Bureau of Indian Affairs
 - Miccosukee Tribe requested support for dewatering pumps in main reservation area; the Tribe evacuated special medical needs tribal members to hospitals off-reservation
- **Department of State (DoS)**
 - 567 American citizens were evacuated from St. Martin to San Juan, PR between September 8-9
 - Hurricane Jose prevented further evacuation of American citizens; US Department of State Task Force is coordinating support to American citizens in need of assistance (*DoS update, September 9, 2017, 11:09 p.m. EDT*)
- **Customs and Border Protection**
 - USVI/PR: Ten flight crew personnel and three helicopters providing transportation between PR and USVI and supporting ESF-8 and ESF-9 operations (*CBP Update: September 9 2017, 7:20 a.m.*)



FEMA

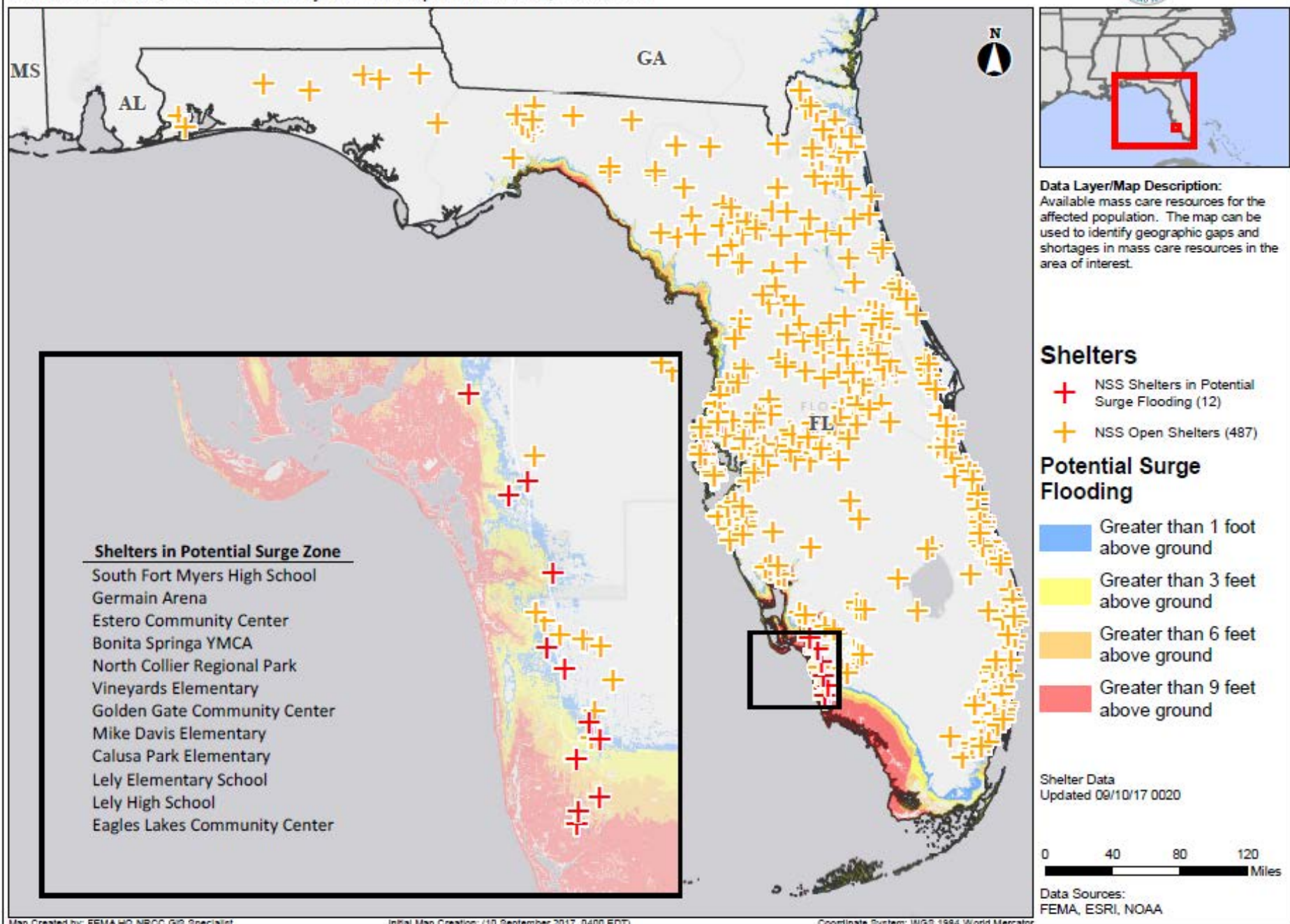
FEMA Logistics Pre-Positioned Sites - CONUS Commodities as Reported 9/10/2017 - 0100EDT

Logistics



FL NSS Open Shelters in Potential Surge Zone (10 September 2017, 0400 EDT)

Hurricane IRMA , NOAA - Advisory 44 - 09 September 2017, 2300 EDT



Total FEMA Supporting Hurricane Irma Actions

Responders on the Ground: 1342

FEMA Staff on Standby: 16

FEMA Corps Members available to support: 81

Other FEMA staff supporting: 527

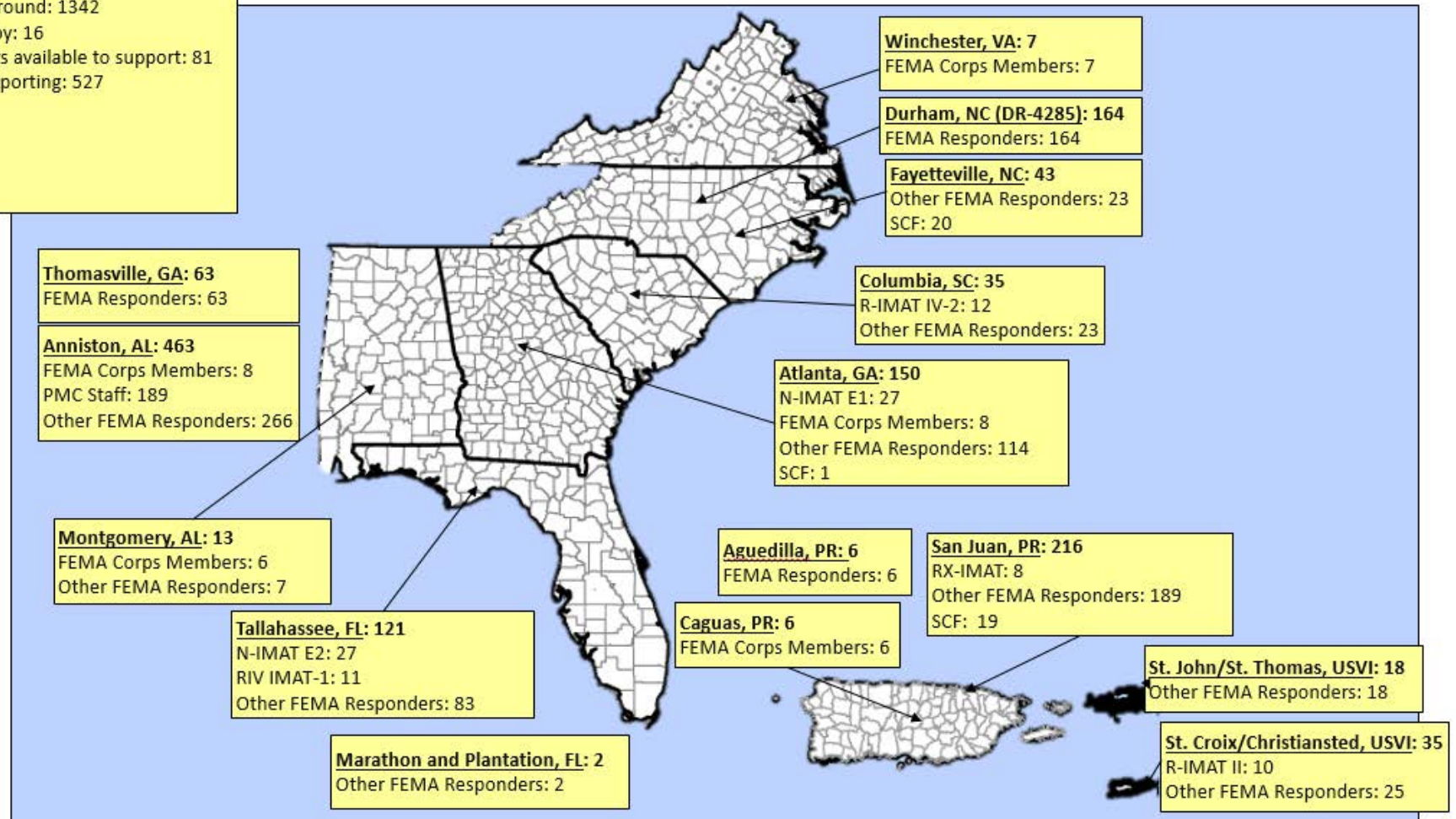
R1 RRCC: 13

R2 RRCC: 99

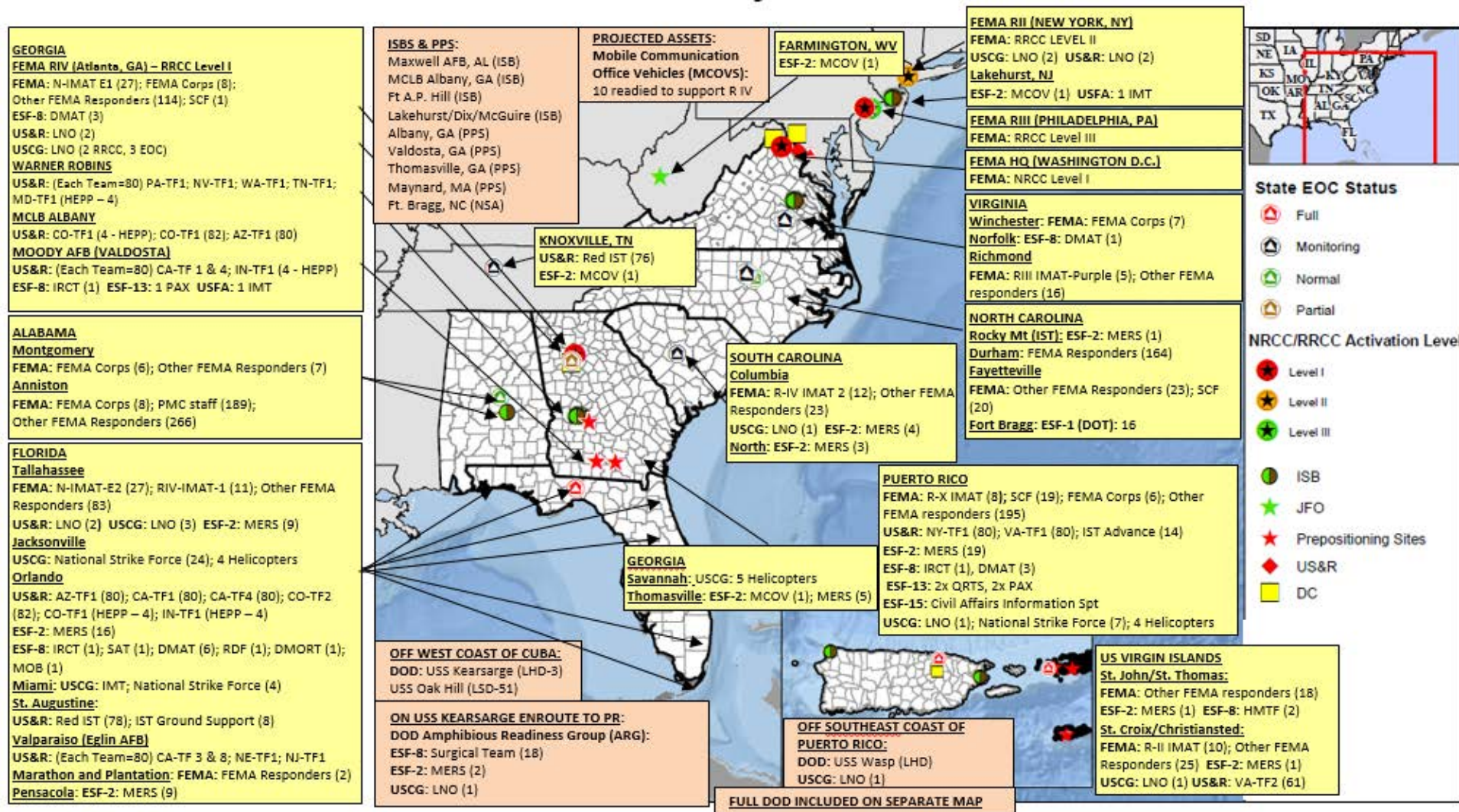
R4 RRCC: 148

NRCC: 267

Hurricane Irma – FEMA Responder Laydown (as of Sep 10, 2017 0200)



Hurricane Irma – Federal Force Laydown & Assets (as of Sep 10, 2017 0500)



Recovery Snapshot
Post-Tropical Cyclone Harvey
Sunday, September 10, 2017 (5:00 a.m. EDT)
Updates in Blue

Current Situation:

Region VI RRCC transitioned to Enhanced Watch September 8, 5:00 p.m. EDT (RRCC update, September 8, 2017, 12:45 p.m. EDT)

Housing:

• **Individual Assistance**

Individual Assistance (as of 09/09/2017, 11:02 pm EDT)				
State	Total Registrations	Total IHP\$	Housing Assistance \$	ONA \$
Texas	683,382	\$263,745,022	\$146,965,109	\$116,779,913

• **FEMA Inspections**

Housing Inspections (as of 09/09/2017, 11:02 pm EDT)				
State	Inspectors with Work	Inspections Issued	Inspections Complete	% Complete
Texas	1,734	267,854	76,121	28.4%

• **Transitional Shelter Assistance (TSA)**

Transitional Sheltering Assistance (as of 09/09/2017, 3:24pm EDT)		
State	Currently Checked In to Hotel	Currently Eligible
Texas	21,233	274,363

• **National Flood Insurance Program Claims Estimates**

NFIP Claims Estimate (as of 09/09/2017)		
State	Claims Submitted	Advanced Payments to Insured Survivors
Texas	82,000	\$119.9 M

• **US Department of Housing and Urban Development (HUD)***

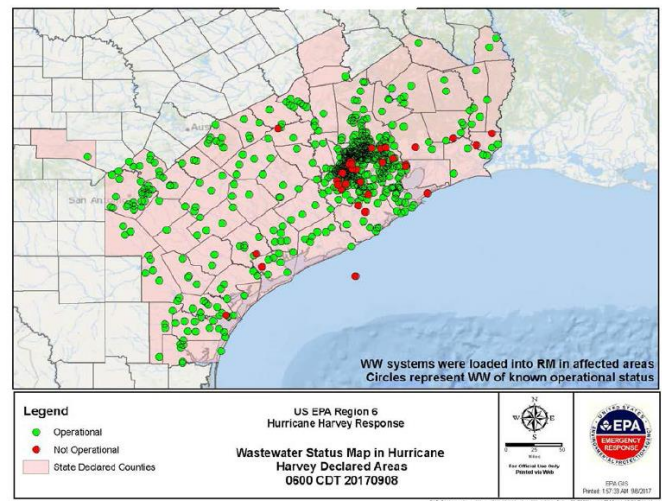
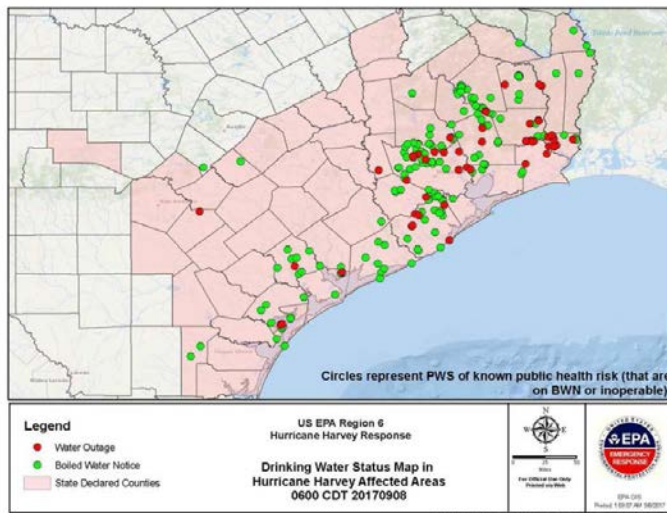
Hurricane Harvey - Texas	Number of Properties in Impacted Area	Displaced (# of Beds for Healthcare - Hospital)	Displaced (# of Household for Public & Indian Housing - Multifamily Housing)	Returned or Permanently Housed (# of Households/Beds)
Multifamily Housing	454	0	2,146	0
Public and Indian Housing	42	0	812	0
Healthcare and Hospitals	40	994	0	492
Total	536	994	2,958	492

* (No change from 9/8/2017, HUD reports that new data will be presented twice per week, on Tuesdays and Fridays, starting Tuesday, September 12, 2017).

Infrastructure Systems (FEMA Recovery Update, September 9, 2017, 3:36 p.m. EDT)

• **Water and Wastewater**

- Texas Commission on Environmental Quality (TCEQ) and EPA have completed surveys of 4,852 drinking water facilities and 2,908 wastewater facilities in the impacted area found 37 Severe Damage, 30 Medium Damage, 248 Minor Damage



• Aviation

- All major airports are at normal operations. Only Texas Gulf Coast Regional Airport is operating under restricted operations (closed except for relief aircraft)

• Highway

- FHWA HQ and TX Division responding to FEMA mission assignment requesting public affairs subject matter experts to staff Texas Joint Field Office (JFO)
- TX Division leadership meeting with TX DOT regional staff in the process of determining timing for joint damage assessments
- TX Division sending 4 engineers to Houston District next week to begin damage assessments
- LA DOT planning on deploying damage assessment teams within the next week
- Texas Highway closures:
 - Sam Houston Tollway between I-10 and Westheimer; due to flooding

• Maritime

- Corpus Christi – open with restrictions – vessels restricted to draft not above 43ft
- Houston Area – open with restrictions – vessels less than 40ft draft and daylight hours
- Port of Beaumont – open with restrictions – 30-foot draft restriction for the Sabine-Neches Waterway
- Port of Port Arthur – open with restrictions – 34-foot draft restriction for the Sabine-Neches Waterway

• Oil and Gas

- Five refineries in the Gulf Coast region are shut down; six refineries are in process of restarting after being shut down, and petroleum production can take several days. An additional five refineries are operating at reduced rates (*DoE SitRep, September 9, 2017, 8:30 a.m. EDT*)

• Pipeline/HAZMAT

- The EPA and the TCEQ continue to get updates about the status of specific sites from the parties responsible for ongoing cleanup of the sites. The TCEQ has completed the assessment of all 17 state Superfund sites in the affected area. There were no major issues noted. The TCEQ will continue to monitor sites to ensure no further action is needed in regards to the storm.

• Rail

- All southeast Texas industrial leads have returned to service except two on the Union Pacific Railroad but both should be back in service on September 9; Amtrak route between San Antonio and New Orleans operating limited service

ECONOMIC RECOVERY

• Small Business Administration

SBA Business Loans (as of 09/09/2017)

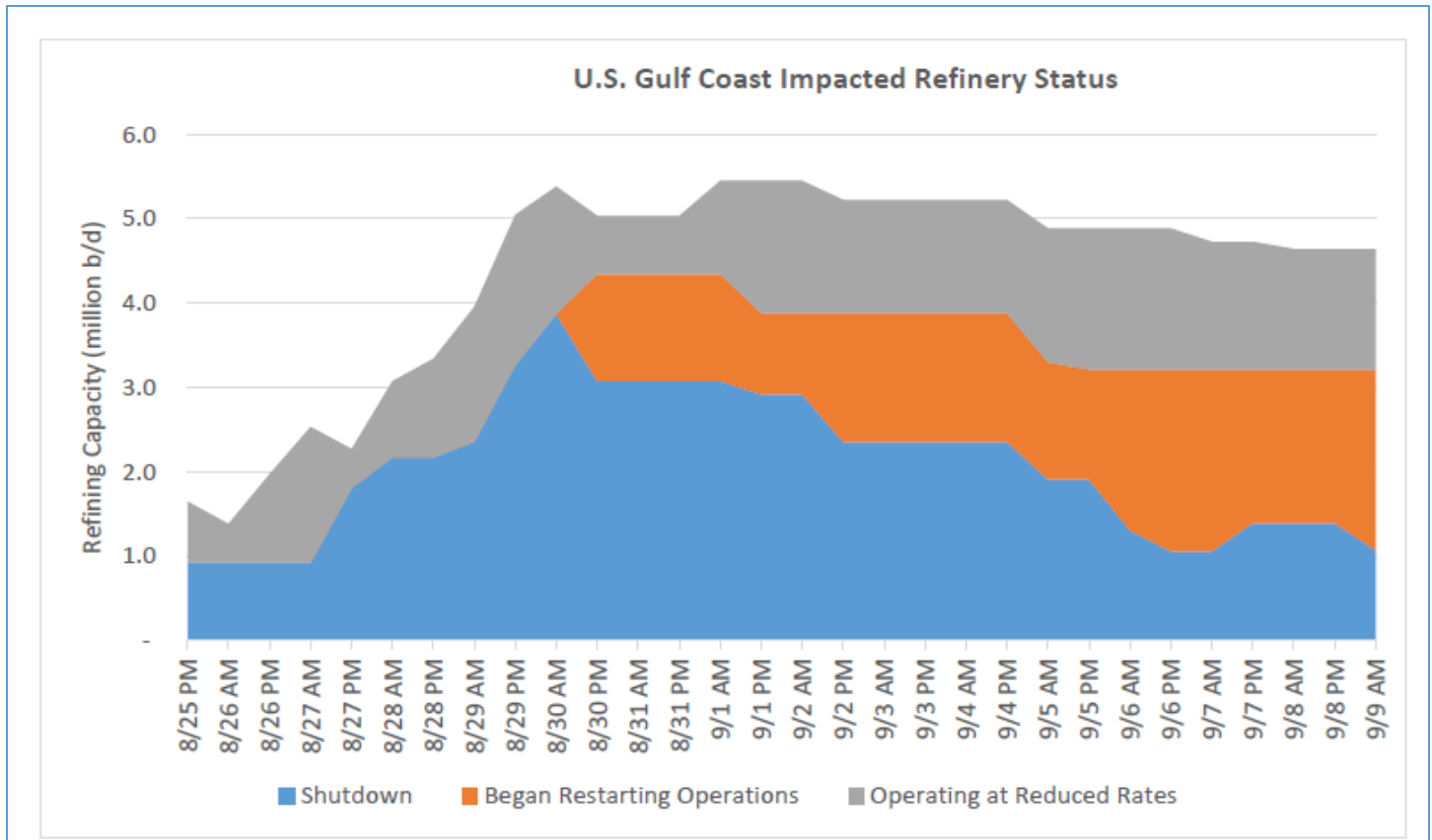
State	Applications Received	Applications Approved	Loan \$ Approved	Average Loan Amount
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Texas	993	74	\$6,608,400	\$89,303
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- **USDA Risk Management Agency**

- Due to the destruction of communication lines and the limited ability to travel in the impacted areas, many USDA RMA policyholders are unable to communicate with their agents to report losses within the Common Crop Insurance Policy, Basic Provisions (17-BR) 72 hour requirement.
- RMA has authorized Approved Insurance Providers to consider individual circumstances in accepting delayed notices of loss. Initial reportable numbers may be available on September 12.

(ESF-10 Daily Sitrep, September 8, 2017, 12:19 p.m. EDT)



(DoE SitRep, September 9, 2017, 8:30 a.m. EDT)

Responder Lodging

- USTS Empire State (650 beds) [was delayed due to current weather conditions, and is now anticipated to arrive](#) in Beaumont, TX around [September 18](#); SS Kennedy (600 beds) anticipated to arrive in Houston, TX [September 18](#)